

Fundamentals of Physics for Teens

Physics · Practice Test · 8 Questions

1. What is the unit of force in the International System of Units (SI)?

- A) Watt
- B) Joule
- C) Newton
- D) Pascal

2. Which of these is a vector quantity?

- A) Speed
- B) Mass
- C) Temperature
- D) Velocity

3. What fundamental force is responsible for keeping planets in orbit around the Sun?

- A) Electromagnetic force
- B) Strong nuclear force
- C) Weak nuclear force
- D) Gravitational force

4. According to Newton's First Law of Motion, an object at rest will stay at rest unless acted upon by a(n):

- A) Balanced force
- B) Internal force
- C) Unbalanced force
- D) Frictional force

5. What is the SI unit for electric current?

- A) Ohm
- B) Volt
- C) Ampere
- D) Watt

6. Which type of energy is stored in a stretched rubber band?

- A) Kinetic energy
- B) Thermal energy
- C) Chemical energy
- D) Potential energy

7. What phenomenon occurs when light bends as it passes from one medium to another?

- A) Reflection
- B) Diffraction
- C) Refraction
- D) Dispersion

8. What is the approximate speed of light in a vacuum?

- A) 300,000 kilometers per hour
- B) 300,000 meters per second
- C) 300,000 kilometers per second
- D) 300,000 miles per hour